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GUJARAT TECHNOLOGICAL UNIVERSITY

Pharm D – 1st Year • EXAMINATION – SUMMER - 2018

o			ate: 25/05/2018	
Time Instru	e: 10: ctions	s:	otal Marks: 70	
1. 2. 3.	Mak	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Classify Intramolecular Forces and Explain Bond dissociation Explain Following Terms 1. Heterolysis 2. Homolysis 3. Dipole-Dipole interaction 4. Polarity of bond	Energy.	06
0.2	(c)	Explain the reactivity and stability of free radical.		04
Q.2	(a) (b) (c)	Discuss the mechanism and stereochemistry of SN1 AND SN2 Write a note on Carbocations with mechanism. Write a note on: Methods of preparation of cycloalkanes.	reaction.	06 04 04
Q.3	(a)	Explain the influence of activating and deactivating groups on substitution of benzene.	the electrophillic	06
	(b) (c)	Explain oxidation-reduction reaction with examples. Give chemical structure and IUPAC name of following 2,2,4-Trimethylpentane, 1-methoxy-2-propanol,2-Nitrophenol	,Vinyl bromide	04 04
Q.4	(a)	Give the preparation, test of purity, assay and medicinal use of 1. chlorbutol	•	06
	(b)	 Sodium lauryl sulphate. Differentiate E1 and E2 reaction. 		04
	(c)	Explain the halohydrin formation.		04
Q.5	(a)	Explain the following: 1.aldol condensation 2.Sandmeyer's reaction		06
	(b)	Explain the cycloaddition reaction.		04
0.6	(c)	Explain the resonance and hyper-conjugation.		04
Q. 6	(a) (b)	 Comment on the following Meta nitro benzoic acid is more acidic than Para nitro benzo Pyridine is aromatic All Lowrie-Bronsted acids and bases can be Lewis acids an but all Lewis acids and bases cannot be Lowrie-Bronsted ac Write detail note on Nucleophilic substitution bimolecular. 	d bases	06
	(c)	Explain Isomerism in organic compound		04
Q.7	(a) (b) (c)	Explain the Perkin condensation and Kolbe reaction. Write free radical halogenations reaction of alkenes. Write a note on Markownikov's rule in detail.		06 04 04